



STATE OF TENNESSEE  
TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
COOKEVILLE ENVIRONMENTAL FIELD OFFICE

1221 South Willow Avenue  
Cookeville, Tennessee 38506

Phone 931-520-6688

Statewide 1-888-891-8332

Fax 931-432-6952

The Honorable Donny Dennis

City of Carthage  
P.O. Box 259  
Carthage, TN 37030

January 24, 2017

**RE: Collection System Inspection (CSI), City of Carthage Wastewater Treatment Plant;  
NPDES TN0022993**

Dear Mayor Dennis:

Division of Water Resources staff wishes to thank you, and Mr. Ricky Brown for your generous time and courtesy during the recent Collection System/Pump Station Inspection (CSI) at the City of Carthage Wastewater Treatment Facility in Smith County.

**Permit**

The current NPDES permit became effective on March 1, 20016 and will expire on February 28, 2019. The single outfall is at the river bank (U.S. Corps of Engineer's property) of the Cumberland River (Old Hickory Reservoir). The NPDES sign was in place.

**Facility Site Review**

The wastewater treatment process was in operation. The facility was clean. The tanks within the facility appeared to be in good condition as recent maintenance activities have improved operation.

**Effluent and Receiving Waters**

The receiving waters were found to be in good condition. The effluent was observed and noted to be clear.

**Laboratory**

It was previously recommended that the City consider purchasing or budgeting for a Luminescent Dissolved Oxygen (LDO) meter to be used in the Carthage STP laboratory. The purchase was made and the operators are impressed with the performance of the new instrument.

The Honorable Donny Dennis  
Mayor City of Carthage  
1/24/17  
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### **Operations and Maintenance**

A portion of the collection system was specifically reviewed. Pump station maintenance was being performed by the City's contractor on the STP's internal pump station. A bypass pump was in place. The Radio Station pump station (recently refurbished) was reviewed. This new pump station is still within the warranty period. Problems at this pump station were noted with the starting mechanism for one of the two pumps. The telemetry at this pump station is performing well. The flow measurement at the pump station is working well. A recent electrical failure due to a bird shorting the power feed on the electrical service proved to be a good example of how fast the pump station could be brought back on line. After the power failure, the system was back on line within thirty (30) minutes.

### **Recommendations**

- ✓ Maintain the ongoing maintenance activities at the wastewater plant and collection system including head-works improvements.
- ✓ Please continue to provide Operators with the knowledge of changing issues through the attendance of courses at the Fleming Training Center.

The Division of Water Resources would again like to thank you and Mr. Ricky Brown for your time and courtesy during this inspection.

If you have any questions, you may contact Oakley Hall in Cookeville by way of telephone at (931) 432-6677 or toll free at 1-(888)-891-8332. You may also use electronic mail at: [Oakley.Hall@tn.gov](mailto:Oakley.Hall@tn.gov).

Sincerely,



Johnny K. Walker  
Environmental Program Manager III  
Division of Water Resources  
Cookeville Environmental Field Office

Enclosure: Site Photographs; Water Compliance Inspection Report;  
cc: EFO-CK, Smith County DWR Files: TN0022993



TDEC - Division of Water Resources  
Cookeville Field office

ICIS NPDES Facilities Inspection Report

Facility Data

NPDES ID:	TN0022993	Facility Site Name	City of Carthage Sewer Treatment Plant		
		Address	P.O. Box 259		
Permit Eff. Date:	Mar 1, 2016	Permit Exp Date:	Feb 28, 2019	SIC Code:	

Compliance Monitoring Information

Compliance Monitoring Activity Name	CSO Inspection (Non-Sampling)				
	* If Bio Monitoring is selected above, select the method used:				
Compliance Monitoring Activity	Evaluation				

Compliance Monitoring Dates/Times

Entry Date/Time (mm/dd/yyyy hh:mm):	January 13, 2016; 12:30 PM	Exit Date/Time (mm/dd/yyyy hh:mm):	January 13, 2016; 2:30 PM
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Facility Representatives

Mr. Ricky Brown, Chief Operator	Mayor Donny Dennis
On-Site Representative(s) Title, Phone Number	Responsible Official(s), Title, Phone Number

Statute and Section Information

Federal Statute:	CWA - Clean Water Act	State Statute:	Tennessee Water Quality Control Act
Programs:	NPDES- Base Program (Limits, Reporting, & Schedule)		

Compliance Monitoring Reason:	Core Program				
Compliance Monitoring Agency Type:	State	Agency Name:	TDEC - DWR		
Did EPA assist/ Inspection?	No	Time Physically conducting activity: Days:	3	Hours:	0
Inspection Type:	State	Compliance Monitoring Action Outcome:	No Violation		
Lead Agency:	State	Compliance Monitoring Rating Code:	Unrated		
If Joint Inspection, what was the purpose of the other party?	N/A				

Areas Evaluated During Inspection (Check only those areas evaluated)

<input checked="" type="checkbox"/> Permit	<input type="checkbox"/> Self - Compliance Program	<input type="checkbox"/> Pretreatment
<input type="checkbox"/> Records / Records	<input type="checkbox"/> Compliance Schedule	<input type="checkbox"/> Pollution Prevention
<input checked="" type="checkbox"/> Facility Site Review	<input checked="" type="checkbox"/> Laboratory	<input type="checkbox"/> Storm Water
<input checked="" type="checkbox"/> Effluent / Receiving Waters	<input checked="" type="checkbox"/> Operations & Maintenance	<input type="checkbox"/> Combined Sewer Overflow
<input type="checkbox"/> Flow Measurement	<input type="checkbox"/> Sludge Handling / Disposal	<input checked="" type="checkbox"/> Sanitary Sewer Overflow

Compliance Monitoring Summary

Collection System Inspection in order to review maintenance activities and recently refurbished systems.
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EPA and State Representatives

William O. Hall	TDEC, DWR/ Cookeville EFO/ (931) 520-6677	Jan 20, 2017
Inspector's Signature	Agency / Office / Phone	Date
Johnny K. Walker	TDEC, DWR/ Cookeville EFO/ (931) 520-6688	Jan 20, 2017
Manager's Signature	Agency / Office / Phone	Date

(Note: This form can only be printed to an XPS document, then saved for later use.)



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## City of Carthage Collection System Photo Sheet, January 13, 2017



The City's contractor was performing pump station maintenance. A gasoline powered bypass pump was in place to move sewer around to the downstream manhole. This is the internal pump station at the sewer treatment plant. Photos Recorded on: 1/13/17, by: WOH



The "Radio Station" pump station tower is pictured along with the new placement of the submerged pumps. It was noted that one of the two pumps is having difficulty starting. The operators noted that they like the new telemetry that is now in place. Photo recorded 1/13/17, by: WOH